

IN THE CLAIMS

Please substitute the following amended claims for corresponding claims previously presented. A copy of the amended claims showing current revisions is attached.

29. (Amended) A liquid crystal display device comprising:

a first substrate and a second substrate;

a liquid crystal layer interposed between the first substrate and the second substrate;

a first polarizer provided on a surface of the first substrate which is opposite the liquid crystal layer;

a second polarizer provided on a surface of the second substrate which is opposite the liquid crystal layer;

a first phase compensation element provided between the first polarizer and the liquid crystal layer; and

a second phase compensation element provided between the second polarizer and the liquid crystal layer,

wherein a plurality of pixel areas are provided for display, each of the plurality of pixel areas is a liquid crystal region including a reflection area for performing display using reflected light and a transmission area for performing display using transmitted light, wherein a reflective electrode region defining the reflection area and a transmissive

electrode region defining the transmission area are formed in correspondence with each pixel area on the second substrate, and

wherein a thickness (d1) of the liquid crystal layer in the transmissive electrode region and a thickness (d2) of the liquid crystal layer in the reflective electrode region are defined by a relationship $d1 > d2$, and wherein thickness d1 is substantially larger than thickness d2 so that electrooptical characteristics of the reflection area and the transmission area are approximately matched.

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30. (Amended) A liquid crystal display device comprising:

a first substrate and a second substrate;

a liquid crystal layer interposed between the first substrate and the second substrate;

a first polarizer provided on a surface of the first substrate which is opposite the liquid crystal layer;

a second polarizer provided on a surface of the second substrate which is opposite the liquid crystal layer;

a first phase compensation element provided between the first polarizer and the liquid crystal layer; and

a second phase compensation element provided between the second polarizer and the liquid crystal layer,

wherein a plurality of pixel areas are provided for display, each of the plurality of pixel areas comprises a reflection area for performing display using reflected light and a transmission area for performing display using transmitted light, wherein a reflective electrode region defining the reflection area and a transmissive electrode region defining the transmission area are formed in correspondence with each pixel area on the second substrate,

wherein a thickness (d1) of the liquid crystal layer in the transmissive electrode region and a thickness (d2) of the liquid crystal layer in the reflective electrode region are defined by a relationship $d1 > d2$, and wherein the relationship is $d1 = 2 \times d2$.

31. (Amended) A liquid crystal display device comprising:

- a first substrate and a second substrate;
- a liquid crystal layer interposed between the first substrate and the second substrate;
- a first polarizer provided on a surface of the first substrate which is opposite the liquid crystal layer;
- a second polarizer provided on a surface of the second substrate which is opposite the liquid crystal layer;
- a first phase compensation element provided between the first polarizer and the liquid crystal layer; and

a second phase compensation element provided between the second polarizer and the liquid crystal layer,

wherein a plurality of pixel areas are provided for display, each of the plurality of pixel areas comprises a reflection area for performing display using reflected light and a transmission area for performing display using transmitted light, wherein a reflective electrode region defining the reflection area and a transmissive electrode region defining the transmission area are formed in correspondence with each pixel area on the second substrate,

wherein a thickness (d_1) of the liquid crystal layer in the transmissive electrode region and a thickness (d_2) of the liquid crystal layer in the reflective electrode region are

defined by a relationship $d_1 > d_2$, and wherein the relationship is $d_1 > 2 \times d_2$.

32. (Amended) A liquid crystal display device comprising:

a first substrate and a second substrate;

a liquid crystal layer interposed between the first substrate and the second substrate; and

a plurality of pixel areas provided for display, each of the plurality of pixel areas including a reflection area for performing display substantially in a reflection mode using reflective light, and a transmission area for performing display substantially in a transmission mode using transmitted light, wherein the reflection area and the transmission area are laterally discrete within the pixel area;

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wherein a first uniform conductive layer having a high property of light transmission efficiency provided in the transmission area and a second uniform conductive layer having a high property of light reflection efficiency provided in the reflection area are formed in correspondence with each pixel area on the second substrate, and the first conductive layer and the second conductive layer are formed as independent layers to each other so that the first uniform layer having light transmission is not provided in substantially entire areas of respective pixel areas; and

wherein in at least one pixel the second conductive layer having the high property of light reflection, but not the first conductive layer, overlaps at least part of a channel area of a transistor with which the first and second conductive layers are in electrical communication.

[Please add the following new claims:

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35. (New) A liquid crystal display device comprising:
a first substrate and a second substrate;
a liquid crystal layer interposed between the first substrate and the second substrate; and

a plurality of pixel areas provided for display, each of the plurality of pixel areas including a reflection area for performing display using reflective light and a transmission area for performing display using transmitted light;

wherein a first conductive layer having a high property of light transmission efficiency provided in the transmission area and a second conductive layer having a high property of light reflection efficiency provided in the reflection area are formed in correspondence with each pixel area on the second substrate, and the first conductive layer and the second conductive layer are formed as independent layers to each other; and

wherein in at least one pixel the second conductive layer having the high property of light reflection, but not the first conductive layer, overlaps at least part of a channel area of a transistor with which the first and second conductive layers are in electrical communication.

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36. (New) The display device of claim ~~32~~⁴, wherein a ratio of transmission area to reflection area in each pixel area is on the order of about 40:60.

37. (New) A liquid crystal display device comprising:
a first substrate and a second substrate;
a liquid crystal layer interposed between the first substrate and the second substrate; and

a plurality of pixel areas provided for display, each of the plurality of pixel areas including a reflection area for performing display using reflective light and a transmission area for performing display using transmitted light;

wherein a first conductive layer having a high property of light transmission efficiency provided in the transmission area and a second conductive layer having a high property of light reflection efficiency provided in the reflection area are formed in correspondence with each pixel area on the second substrate, and the first conductive layer and the second conductive layer are formed as independent layers to each other, and an insulation layer is provided between the first conductive layer and the second conductive layer; and

wherein the insulation layer comprises an organic resin, and a surface of the insulation layer to be formed on the second conductive layer comprises a wave-like surface shape, and the surface of the second conductive layer comprises a wave-like surface shape.

REMARKS

This is in response to the Office Action dated February 13, 2002. New claims 35-37 have been added. Thus, claims 29-37 are now pending. Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page(s) is captioned "Version With Markings To Show Changes Made."

The title has been amended as suggested by the Examiner.

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